Evaluation Summary for Potential Additional Monitoring Wells

ST012, Former Williams AFB

Zone	Proposed by EPA well	Proposed EPA Location	Proposed Location Modification by ADEQ	Primary Purpose based on Call/Discussion	Air Force Recommended Modifications Following Call/Discussion[2]	Priority[1]
CZ	Location 1	100 ft NE of CZ023		Containment monitoring beyond CZ23	No change	High
CZ	Location 2	100 ft N of CZ023		Containment monitoring beyond CZ23 and downgradient of LSZ53 area where boring had mixed results	No change	Medium
CZ	Location 3	E-SE of CZ09		Earlier detection of VOC or sulfate displacement from injections	No change	Low
CZ	Location 4	E of CZ21	Move SE, between C02 and CZ24	Earlier detection of VOC or sulfate displacement from injections	Move SE to be downgradient of CZ12 and outside interpreted 5 µg/L benzene contour	Low
UWBZ	Location 1	E of UWBZ09	Move farther N or same locations as CZ wells beyond CZ23	Containment Monitoring beyond CZ09	Move NNE of the EPA proposed location to outside interpreted 5 µg/L benzene contour	High
UWBZ	Location 2*	E of UWBZ12		Earlier detection of VOC or sulfate displacement from injections	Combine proposed EPA locations #2 and #4 into one located farther east outside interpreted 5µg/L benzene contour	Low
UWBZ	Location 3	NE of UWBZ32		Earlier detection of VOC or sulfate displacement from injections	No change	Low
UWBZ	Location 4*	E of UWBZ21		Earlier detection of VOC or sulfate displacement from injections	Combine proposed EPA locations #2 and #4 into one located farther east outside interpreted 5µg/L benzene contour	Low
UWBZ	Location 5	E of UWBZ30		Containment Monitoring beyond UWBZ30	Move to proposed LSZ location between W24 and LSZ55.	High
LSZ	Location 1	NE of LSZ44		Containment monitoring in gap between W34 and LSZ54	No change	High
LSZ	Location 2	E of W34		Detection of sulfate displacement from injections	Eliminate, injections no longer planned in W34	Eliminate
LSZ	Location 3	NE of LSZ45	Move E between LSZ55 and LSZ45	Earlier detection of VOC or sulfate displacement from injections	Move to gap between W24 and LSZ55 downgradient of SB18	High
LSZ	Location 4	E of W36		Earlier detection of VOC or sulfate displacement from injections	In an area of interpreted benzene >1,000 µg/L in desired location to distribute sulfate. EPA LSZ location 1 provides more appropriate location for detecting undesired VOC and sulfate migration	Eliminate
LSZ	Location 5	NE of W36		Containment monitoring in gap between LSZ53 and LSZ54	Not required, LSZ53 and LSZ54 are both below benzene MCL and location is not in direction of flow from W36	Eliminate

Zone	Proposed by EPA well	Proposed EPA Location	Proposed Location Modification by ADEQ	Primary Purpose based on Call/Discussion	Air Force Recommended Modifications Following Call/Discussion[2]	Priority[1]
LSZ	Location 6 (not shown)	S of LSZ46		Not in letter but discussed on call to address potential characterization gap	For future consideration. Not critical for Pilot Study.	Low
LSZ	Location 7 (not shown)	W of W30 and SB19		Not in letter but discussed on call to address potential characterization in area of SB19	For future consideration. Not critical for Pilot Study.	Low

Notes:

[1]High – concurrent implementation with pilot injections, Medium – 6-9 months after pilot injections, Low – 9-12 months after pilot injections. Locations and priority will continue to be evaluated as additional site data is received.

[2]Modifications also consider the Pilot Study injection-extraction modifications based on the current benzene distributions at the site.

*UWBZ locations 2 and 4 were reversed on the figures provided by EPA compared to the description provided in the comment letter. This table and attached figures are consistent with the letter.